



U.S. ARMY SUSTAINABILITY

The Army on the Move

Sustaining the Nation for a Secure Future



Mr. Tad Davis

**Deputy Assistant Secretary of the Army
(Environment, Safety and Occupational Health)**



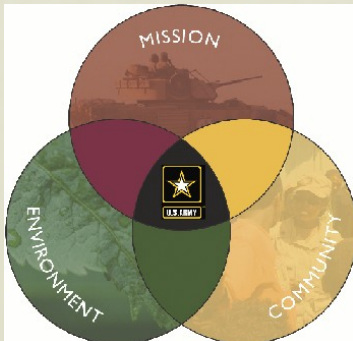
Army Sustainability

Sustainability Defined

A sustainable Army simultaneously

- meets current as well as future mission requirements worldwide
- safeguards human health
- improves quality of life, and
- enhances the natural environment.

The Army Strategy for the Environment



Our Goals

- Foster a sustainability ethic
- Strengthen Army operations
- Meet test, training, and mission requirements
- Minimize impacts and total ownership costs
- Enhance Well-being
- Drive Innovation

“Triple bottom line” Plus –

Mission Environment, Community + Economy



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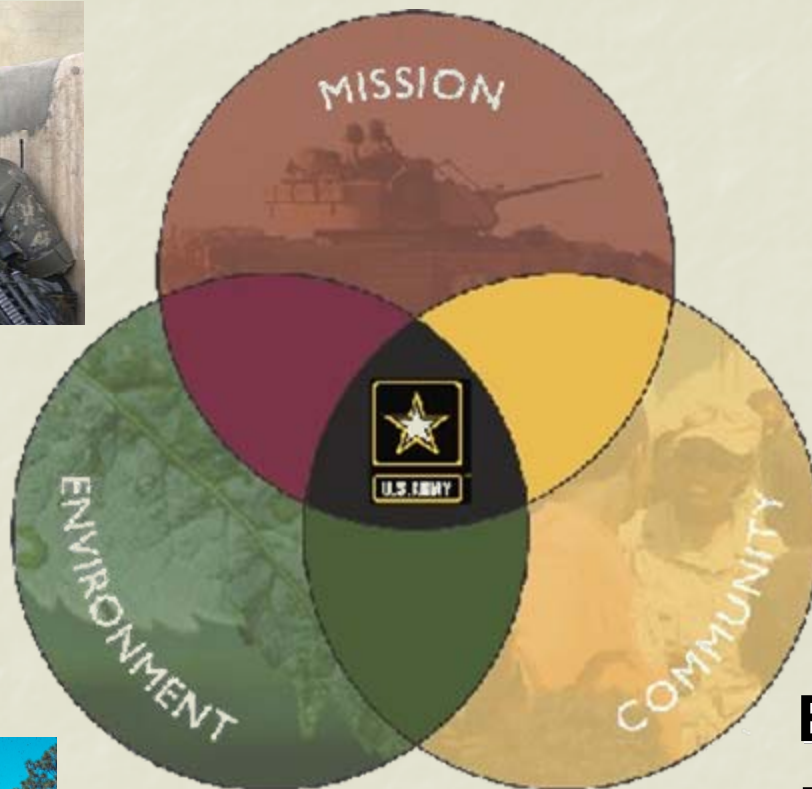
Senior Army Leadership

"Sustainability is a national security imperative, in a world of decreasing natural resources and increasing demand. The Army is building green, buying green, and going green in order to ensure that soldiers have the resources they need to accomplish their mission in the United States and globally"

Pete Geren
Secretary of the Army



Triple Bottom Line - Plus



**The Army...
Building Green,
Buying Green,
Going Green.**

Army Green = Army Strong



Building Green

- LEED Silver construction
- Zero Footprint Camp
- Sustainable Training Areas



Sustainable Range Program

**Stream crossing
at Ft. Hood**



Solar Power at Fort Dix Barracks



**Insulating Foam for
FOBs**



Buying Green

- Army's Green Procurement Guide. Preference for:
 - Recovered Materials
 - Biobased products
 - Energy efficient products
 - Non Ozone-depleting substances
 - Environmentally preferred products



Green Computers



Stryker system



Going Green

- Integrated Hybrid Technology
- Alternative fuel vehicles
- Renewable Energy



Hybrid Heavy Truck (HEMMT)



Hybrid Electric Drive Vehicle



Army/GM Fuel Cell Pickup



Renewable Energy Initiatives



Camp Williams, UT



Hawaii Housing



Rapid Equipping Force



**Field tactical battery
charging**



Fort Carson photo-voltaic



New Jersey National Guard



U.S. ARMY SUSTAINABILITY

Army Energy Security Task Force

- Reduce Army energy consumption
- Increase efficiency across platforms and facilities, to include contingency operations
- Promote the use of new sources of alternative energy
- Establish benchmarks for our environmental "bootprint"
- Provide guidance for the creation of a culture of energy awareness across the Army



Army Green Chemistry Successes

- Halon and ODS alternatives
- Cadmium, Chrome (VI) substitutes
- Perchlorate replacements
- Green munitions
 - M115A2 Artillery Simulator
 - M116A1 Hand Grenade Simulator
- HAP-Free/Low VOC paints and solvents
- Redwater-free TNT
- Energetic material “Virtual Laboratory”





Army Greenhouse Gas (GHG) Study

Enable Army to continue the mission while tracking and reducing greenhouse gas (GHG) emissions

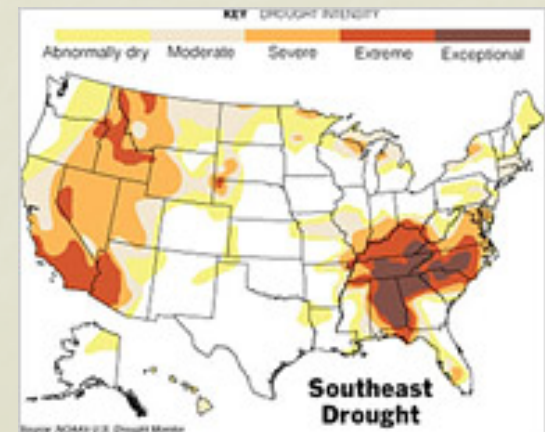
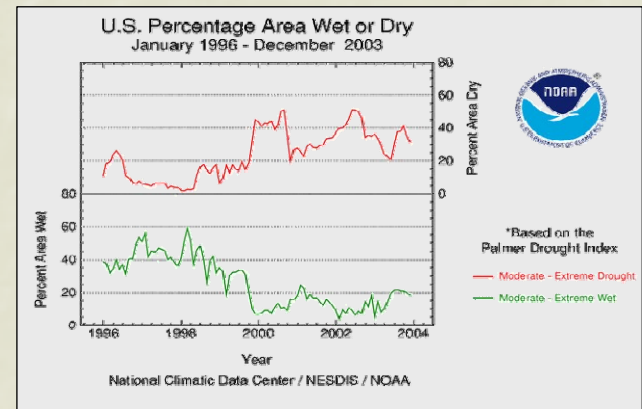
Fort Carson Demonstration

- Scope 1 – track direct GHG emissions from sources within the boundary of Fort Carson
- Scope 2 – track indirect GHG emissions from purchased electricity, heat, or steam consumed at the Installation, but not generated by sources within the boundary of Fort Carson
- Scope 3 – track other indirect GHG emissions which are a consequence of Installation activities but are emitted from sources not owned or controlled by Fort Carson GHG Reduction Projects – permanent removal or offset of GHG emissions resulting from planned human activity



Army Water Study Objectives

- Evaluate the vulnerability of Army installations to potential water shortages over the next 30 years
- Identify policy options and technology advances to minimize potential water shortage impacts on Army missions
- Develop Installation Water Assessment Methodology
- Assist installations in crafting sustainable water use strategies in support of the "triple bottom line – plus"





Army Chesapeake Bay Program

- 19 Army Installations; 310,000 Acres of Army Property
- Emerging Army Strategy:
 - Incorporate Low Impact Development projects
 - Contribute to restoring healthy waters and habitats
 - Support stewardship of Chesapeake Bay fisheries and watersheds
 - Nutrient Management Plans
 - Control invasive species





United States Africa Command

■ Tanzania

- Sustainable Ranges
- Wildlife Conservation



■ Zambezi River

- Transportation
- Water Resources Management



■ Remnants of War

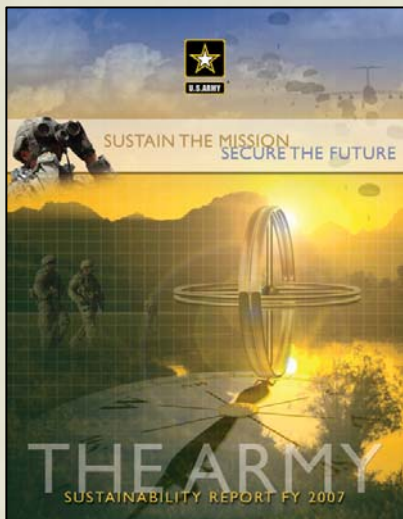
- Humanitarian Demining
- UXO Removal





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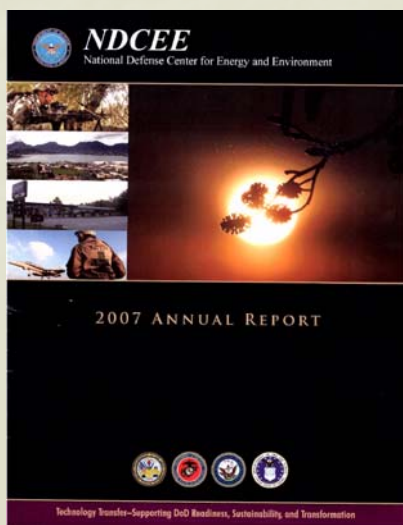
Moving Sustainability Forward



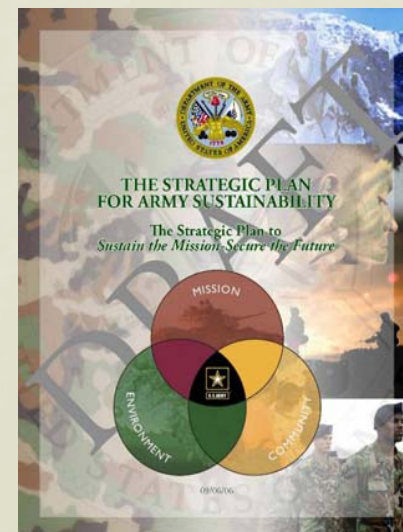
2007 Army Sustainability Report (DRAFT)



Army Strategy for the Environment



2007 NDCEE Annual Report (DRAFT)



Army Strategic Action Plan for Sustainability (DRAFT)



U.S. ARMY SUSTAINABILITY

The Army... Our National Standard Bearer

"Pay attention: When the U.S. Army
desegregated, the country really
desegregated; when the Army goes green,
the country could really go green."

Thomas Friedman
Author, Pulitzer Prize Winner



U.S. ARMY SUSTAINABILITY

Army Values

“I genuinely believe the United States Army is a force of good in this world.”

2LT Mark J. Daily
U.S. Army



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